

**SUPPLEMENTAL
INFORMATION
DISCLOSURE
STATEMENT**

Atty. Docket No.: 290.00420101

Serial No.: 09/438,206

Applicants: Shi et al.

Confirmation No.: 9018

Application Filing Date: 11/12/99

Group: 1617

Supplemental Information Disclosure
Statement mailed:

April 28, 2003



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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
SH	4,919,140	04/24/90	Borgens et al.			
	5,470,568	11/28/95	Lee			
	5,545,648	08/13/96	Hansebout et al.			
	5,605,687	02/25/97	Lee			
SH	6,440,455 B1	08/27/02	Benowitz			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	NONE						

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
SH	Adams-Graves et al., "RheothRx (poloxamer 188) injection for the acute painful episode of sickle cell disease: a pilot study," <i>Blood</i> , 1997 Sept. 1; 90(5):2041-6.
	Ahkong et al., "Movements of fluorescent probes in the mechanism of cell fusion induced by poly(ethylene glycol)," <i>J. Cell Sci.</i> , 1987; 88:389-98.
	Aldewinkel et al., "Effects of Poly (Ethylene Glycol) on Liposomes and Erythrocytes permeability changes and membrane fusion," <i>Biochim. Biophys. Acta.</i> , 1982; 689:548-560.
	Allen, "Surgery of experimental lesion of spinal cord equivalent to crush injury of fracture dislocation of spinal column," <i>J. Am. Med. Assoc.</i> , 1911 Sept. 9; 57:878-880
SH	Anderson et al., "Characteristics of intraspinal grafts and locomotor function after spinal cord injury," <i>Proceedings of the Third Altschul Symposium on Neural Cell Specification: Molecular Mechanisms and Neurotherapeutic Implications</i> , Juurlink et al., eds., Plenum Press, New York, 1995; 249-266.

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SH	Anderson et al., "Regeneration of spinal neurons in inframammalian vertebrates: morphological and developmental aspects," <i>J. Hirnforsch.</i> , 1983; 24:371-398.
	Armstrong et al., "Inhibition of red blood cell-induced platelet aggregation in whole blood by a nonionic surfactant, poloxamer 188 (RheothRx® injection)," <i>Thrombosis Research</i> , 1995; 79(5/6):437-50.
	Asano et al., "Horseradish peroxidase used to examine the distribution of axonal damage in spinal cord compression injury <i>in vitro</i> ," <i>J. Neurotrauma</i> , 1995; 12:993 (Abst. No. TS2).
	Basso et al., "A Sensitive and reliable locomotor rating scale for open field testing in rats," <i>J. Neurotrauma</i> , 1995; 12(1):1-21.
	Benzel, <i>Spine Surgery: Techniques, Complication Avoidance and Management</i> , Philadelphia, PA 1999; cover page, title pages, table of contents and 369-387 and 389-400.
	Berne et al. eds., "Generation and Conduction of Action Potentials," <i>Physiology</i> , 3 rd Edition, Mosby, St. Louis, MO, 1993; 36-54.
	Bernstein et al., "Spinal cord regeneration: synaptic renewal and neurochemistry," <i>Neuronal Plasticity</i> , Cotman, ed., Raven Press, New York, 1978; 49-71.
	Bernstein et al., "Synaptic frequency alteration on rat ventral horn neurons in the first segment proximal to spinal cord hemisection: an ultrastructural statistical study of regenerative capacity," <i>J. Neurocytol.</i> , 1977; 6:85-102.
	Bernstein et al., "Synaptic reorganization following regeneration of goldfish spinal cord," <i>Exp. Neurol.</i> , 1973; 41:402-410.
	Berry, "Chapter 4: Regeneration in the central nervous system," <i>Recent Advances in Neuropathology</i> , Smith et al., eds., Churchill Livingstone, New York, 1979; 67-111.
	Bisby, "Regeneration of peripheral nervous system axons," <i>The Axon Book</i> , Waxman et al., eds., Oxford UP, New York, 1995, 553-578.
SH	Bittner, "Long-term survival of anucleate axons and its implications for nerve regeneration," <i>TINS</i> , 1991; 14(5):188-193.

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SH	Blight, "Delayed demyelination and macrophage invasion: A candidate for secondary cell damage in spinal cord injury," <i>Central Nervous System Trauma</i> , 1985; 2(4):299-315.
	Blight et al., "The effects of 4-aminopyridine on neurological deficits in chronic cases of traumatic spinal cord injury in dogs: a phase I clinical trial," <i>J. Neurotrauma</i> , 1991; 8(2):103-119.
	Blight et al., "Morphometric analysis of experimental spinal cord injury in the cat: the relation of injury intensity to survival of myelinated axons," <i>Neuroscience</i> , 1986; 19(1):321-341.
	Blight, "Remyelination, Revascularization, and Recovery of Function in Experimental Spinal Cord Injury," Seil, ed., <i>Advances in Neurobiology: Neural Injury and Regeneration</i> , Raven Press, New York, 1993; 59, 91-104.
	Borgens, "Acute Repair of Spinal Injury with Fusogens" Grant Abstract, Grant Number 5R01NS39288-02 [online] National Institute of Neurological Disorders and Stroke. 2001. [retrieved on 2003-02-08]. Retrieved from Dialog.
	Borgens, "Acute Repair of Spinal Injury with Fusogens" Grant Abstract, Grant Number 5R01NS039288-03 [online] National Institute of Neurological Disorders and Stroke Project dates June 1, 2000-February 28, 2003. [retrieved on 2003-02-08]. Retrieved from the Internet: URL: http://commons.cit.nih.gov/crisp3/crisp_lib.getdoc?textkey=6531108&p_grant_num=5R
	Borgens, "Acute Treatment of Contusion Injury to the Spinal Cord," Grant Abstract, Grant Number DHHS-R49-CCR-503590-03. (June 16, 1993) [online]. National Center for Injury Prevention and Control [retrieved on 2003-02-08]. Retrieved from Dialog.
	Borgens, "Acute Treatment of Spinal Trauma by Electrical Fields" Final Report PHS: CDC/CIC #R49/CCR509137. NTIS Item No. PB98155849 (1998) 168 pages.
SH	Borgens, "Chapter 5: Applied Voltages in Spinal Cord Reconstruction: History, Strategies and Behavioural Models," <i>Spinal Cord Dysfunction III: Functional Stimulation</i> , Illis, ed., Oxford UP 1992, 110-144.

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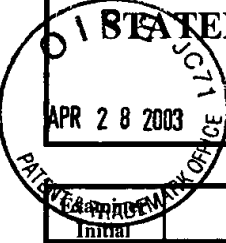
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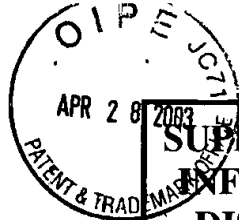
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SH	Borgens et al., "Behavioral recovery induced by applied electric fields after spinal cord hemisection in guinea pig," <i>Science</i> , 1987 Oct. 16; 238:366-369.
	Borgens et al., "Behavioral recovery from spinal cord injury following delayed application of polyethylene glycol," <i>J. Exp. Biol.</i> , 2002; 205:1-12.
	Borgens, "Concept and Innovation: Cellular Engineering: Molecular Repair of Membranes to Rescue Cells of the Damaged Nervous System," <i>Neurosurgery</i> , 2001 Aug.; 49(2):370-379.
	Borgens et al., "Delayed application of direct current fields in experimental spinal cord injuries," <i>J. Rest. Neurol. Neurosci.</i> , 1993; 5(5):173-179.
	Borgens et al., "Effects of applied electric fields on clinical cases of complete paraplegia in dogs," <i>J. Rest. Neurol. Neurosci.</i> , 1993; 5:305-322.
	Borgens, Richard B., "Electronic Facilitation of Functional Recovery Following CNS Trauma," Grant Abstract, Grant No. 9631560 [online]. National Science Foundation, 1996/09/15 to 1999/08/31 [retrieved on 2002/10/12]. Retrieved from the Internet:<URL:https://www.fastlane.nsf.gov/servlet/showaward?award=9631560>; 2 pgs.
	Borgens, "Electrically Mediated Trauma Repair" Grant Abstract, Grant Number DAMD17-94-J-4242 [online] Project dates August 22, 1994-August 21, 1998). [retrieved on 2003-02-08]. Retrieved from Dialog.
	Borgens, Richard B. "Electrically Mediated Trauma Repair. Grant Number DAMD17-94-J-4242. Final Report. NTIS Item Number ADA 359272. September 1998. 139 pages.
	Borgens et al., "Functional recovery after spinal cord hemisection in guinea pigs: The effects of applied electrical fields," <i>J. Comp. Neurol.</i> , 1990; 296:634-653.
SH	Borgens et al., "Immediate recovery from spinal cord injury through molecular repair of nerve membranes with polyethylene glycol," <i>FASEB J.</i> , 2000 Jan.; 14(1):27-35.

EXAMINER

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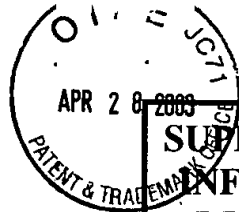
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SH	Borgens et al., "An Imposed Oscillating Electrical Field Improves the Recovery of Function in Neurologically Complete Paraplegic Dogs," <i>J. Neurotrauma</i> , 1999 Nov. 7; 16:639-657.
	Borgens et al., "Large and persistent electrical currents enter the transected lamprey spinal cord," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1980 Feb.; 77(2):1209-1231.
	Borgens et al., "Rapid Recovery from Spinal Cord Injury After Subcutaneously Administered Polyethylene Glycol," <i>J. Neurosci. Res.</i> , 2001; 66:1179-1186.
	Borgens et al., "The Responses of Mammalian Spinal Axons to an Applied DC Voltage Gradient," <i>Exp. Neurol.</i> , 1997 June; 145(2):376-389.
	Borgens et al., "Transected dorsal column axons within the guinea pig spinal cord regenerate in the presence of an applied electric field," <i>J. Comp. Neurol.</i> , 1986; 250:168-180.
	Borgens, "Voltage Gradients and Ionic Currents in Injured and Regenerating Axons," <i>Advances in Neurology, Vol. 47: Functional Recovery in Neurological Disease</i> , Waxman, ed., 1988, Raven Press, New York, 51-66.
	Bracken et al., "A randomized, controlled trial of methylprednisolone or naloxone in the treatment of acute spinal-cord injury: Results of the Second National Acute Spinal Cord Injury Study," <i>New Eng. J. Med.</i> , 1990 May 17; 322(20):1405-1411.
	Bracken et al., "Efficacy of methylprednisolone in acute spinal cord injury," <i>JAMA</i> , 1984, Jan. 6; 251(1):45-52.
	Bregman et al., "Chapter 26: Intervention strategies to enhance anatomical plasticity and recovery of function after spinal cord injury," <i>Adv. Neurol.</i> , Seil, ed., 1997; 72:257-275.
	Bregman et al., "Recovery of function after spinal cord injury: Mechanisms underlying transplant-mediated recovery of function differ after spinal cord injury in newborn and adult rats," <i>Exp. Neurol.</i> , 1993 Sept.; 123(1):3-16.
SH	Bregman et al., "Recovery from spinal cord injury mediated by antibodies to neurite growth inhibitors," <i>Nature</i> , 1995 Nov. 30; 378:498-501.

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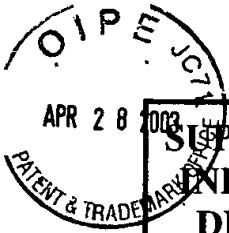


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SH	Bregman et al., "Transplants, neurotrophic factors and myelin-associated neurite growth inhibitors: Effects on recovery of locomotor function after spinal cord injury in adult rats," <i>Soc. Neurosci. Abst.</i> , 1996; 22:764.
	Cajal, "Degeneration and regeneration of the nervous system," May, Trans. and Ed., Oxford UP, London, 1928; Cover pg., Publication pg., and Table of Contents only. (15 pgs.).
	Carafoli et al., <i>Calcium ions and mitochondria, Symposium of the Society for Experimental Biology: Calcium and Biological Systems</i> , Vol. 30, Cambridge UP, New York, 1976, 89-115.
	Carafoli et al., "The Calcium Signal," <i>Sci. Am.</i> , 1985 Nov.; 253:70-78.
	Carr Jr. et al., "Effects of poloxamer 188 on the assembly, structure and dissolution of fibrin clots," <i>Thrombosis & Haemostasis</i> , 1991; 66(5):565-8.
	Center for Paralysis Research, Purdue University, Institute for Applied Neurology, <i>Synapses</i> , Fall 2002. 5 pages.
	Center for Paralysis Research, Purdue University, Institute for Applied Neurology, <i>Synapses</i> , Spring 2002. 4 pages.
	Center for Paralysis Research, Purdue University, Institute for Applied Neurology, <i>Synapses</i> , Fall 2001. 4 pages.
	Center for Paralysis Research, Purdue University, Institute for Applied Neurology, <i>Synapses</i> , Fall 2000. 4 pages.
	Center for Paralysis Research, Purdue University, Institute for Applied Neurology, <i>Synapses</i> , Spring 2000. 4 pages.
	Cheng et al., "Gait Analysis of Adult Paraplegic Rats after Spinal Cord Repair," <i>Exp. Neurol.</i> , 1997 Dec.; 148(2):544-557.
	Chernoff et al., "Review: Developmental aspects of spinal cord and limb regeneration," <i>Develop. Growth Differ.</i> , 1995 Apr.; 37(2):133-147.
SH	Choi, "Glutamate neurotoxicity and diseases of the nervous system," <i>Neuron</i> , 1988; 1:623-634.

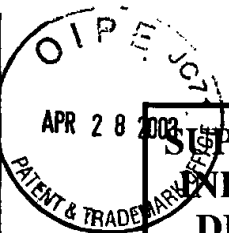
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SM	Choi et al., "The role of glutamate neurotoxicity in hypoxic-ischemic neuronal death," <i>Ann. Rev. Neurosci.</i> , 1990; 13:171-182.
	Coates et al., "Clinicopathologic Effects of a 21-Aminosteroid Compound (U74389G) and High-Dose Methylprednisolone on Spinal Cord Function After Simulated Spinal Cord Trauma," <i>Veterinary Surgery</i> , 1995; 24(2):128-139.
	Coates, "Intervertebral Disk Disease," <i>Common Neurological Problems</i> , 2000 Jan.; 30(1):77-110.
	Davidson et al., "Improved techniques for the induction of mammalian cell hybridization by polyethylene glycol," <i>Somat. Cell Genet.</i> , 1976; 2(2):165-176.
	Davidson et al., "Polyethylene Glycol-Induced Mammalian Cell Hybridization: Effect of Polyethylene Glycol Molecular Weight and Concentration," <i>Somat. Cell Genet.</i> , 1976; 2:271-280.
	Donaldson et al., "Experimental Studies: Polyethylene Glycol Rapidly Restores Physiological Functions in Damaged Sciatic Nerves of Guinea Pigs," <i>Neurosurgery</i> , 2002 Jan.; 50(1):147-157.
	Duerstock et al., "Advances in three-dimensional reconstruction of the experimental spinal cord injury," <i>Computer Medical Imaging and Graphics</i> , 2000; 24:389-406. February 26, 2003
	Duerstock et al., "Three-dimensional morphometry of spinal cord injury following polyethylene glycol treatment," <i>J. Exper. Biol.</i> , 2002; 205:13-24.
	Eidelberg et al., "Relationship between residual hindlimb-assisted locomotion and surviving axons after incomplete spinal cord injuries," <i>Exp. Neurol.</i> , 1977 Aug.; 56(2):312-322.
	Eidelberg et al., "Locomotor control in macaque monkeys," <i>Brain</i> , 1981 Dec.; 104(IV):647-663.
	Farooqui et al., "Excitatory amino acid receptors, neural membrane phospholipid metabolism and neurological disorders," <i>Brain Res. Rev.</i> , 1991; 16:171-191.
SH	Fawcett et al., "Peripheral nerve regeneration," <i>Annu. Rev. Neurosci.</i> , 1990; 13:43-60.

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SH	Fehlings et al., "The relationships among the severity of spinal cord injury, residual neurological function, axon counts, and counts of retrogradely labeled neurons after experimental spinal cord injury," <i>Exp. Neurol.</i> , 1995; 132:220-228.
	Follis et al., "Role of poloxamer 188 during recovery from ischemic spinal cord injury: a preliminary study," <i>Journal of Investigative Surgery</i> , 1996; 9:149-56.
	Frim et al., "Effects of biologically delivered NFG, BDNF and bFGF on straital excitotoxic lesions," <i>NeuroReport</i> , 1993 Apr.; 4(4):367-70.
	Frim et al., "Implanted NGF-producing fibroblasts induce catalase and modify ATP levels but do not affect glutamate receptor binding or NMDA receptor expression in the rat straitum," <i>Experimental Neurology</i> , 1994 Aug.; 128(2):172-80.
	Frim et al., "Local protective effects of nerve growth factor-secreting fibroblasts against excitotoxic lesions in the rat striatum," <i>Journal of Neurosurgery</i> , 1993 Feb.; 78(2):267-73.
	Frim et al., "NGF reduces straital excitotoxic neuronal loss without affecting concurrent neuronal stress," <i>NeuroReport</i> , 1993 June; 4(6):655-8.
	Geisler et al., "Recovery of motor function after spinal-cord injury – a randomized, placebo-controlled trial with GM-1 ganglioside," <i>The New England Journal of Medicine</i> , 1991 June 27; 324(26):1829-1838.
	Griffin et al., "Axonal degeneration and disorders of the axonal cytoskeleton," <i>The Axon</i> , Waxman et al., eds., New York, Oxford UP, 1995, 375-390.
	Hall et al., "Central nervous system trauma and stroke, II: Physiological and pharmacological evidence for involvement of oxygen radicals and lipid peroxidation," <i>Free Rad. Biol. Med.</i> , 1989; 6(3):303-313.
	Hall, "Inhibition of lipid peroxidation in CNS trauma," <i>J. Neurotrauma</i> , 1991; 8(Suppl. 1):S-31-S-40.
SH	Hall, "The neuroprotective pharmacology of metholprednisolone," <i>J. Neurosurg</i> , 1992 Jan.; 76(1):13-22.

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TECH CENTER 1600/1-30

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SH	Hall et al., "U-78517F: A potent inhibitor of lipid peroxidation with activity in experimental brain injury and ischemia," <i>J. Pharm. Exp. Therap.</i> , 1991; 258(2):688-694.
	Hannig et al., "Poloxamine 1107 sealing of radiopermeabilized erythrocyte membranes," <i>Int. J. Rad. Biol.</i> , 1999; 75(3):379-85.
	Hansebout et al., "4-Aminopyridine in chronic spinal cord injury: A controlled, double-blind, crossover study in eight patients," <i>J. Neurotrauma</i> , 1993; 10(1):1-18.
	Honmou et al., "Traumatic injury to the spinal axons," <i>The Axon</i> , Waxman et al., eds., Oxford UP, New York, 1995, 480-503.
	Jaeger et al., "Grafting in acute spinal cord injury: Morphological and immunological aspects of transplanted adult rat enteric ganglia," <i>Neuroscience</i> , 1993; 52(2):333-346.
	Jewell et al., "Pharmacokinetics of RheothRx injection in healthy male volunteers," <i>Journal of Pharmaceutical Sciences</i> , 1997 July; 86(7):808-12.
	Katayama et al., "Massive increases in extracellular potassium and the indiscriminate release of glutamate following concussive injury," <i>J. Neurosurg.</i> , 1990 Dec.; 73(6):889-900.
	Ketchum, "Peripheral Nerve Repair," <i>Fundamentals of Wound Management</i> , Hunt et al., eds., Appleton-Century-Crofts, New York, 1979; 459-475.
	Kiernan, "Hypotheses concerned with axonal regeneration in the mammalian nervous system," <i>Biol. Rev.</i> , 1979; 54:155-197.
	Kohmura et al., "Hippocampal neurons become more vulnerable to glutamate after subcritical hypoxia: an in vitro study," <i>J. Cereb. Blood Flow Metab.</i> , 1990 Nov.; 10(6):877-884.
	Lee et al., "The changing landscape of ischaemic brain injury mechanisms," <i>Nature</i> , 1999, June 24; 399(6738 Suppl.):A7-A14.
SH	Lee et al., "Evolution of lipid structures during model membrane fusion and the relation of this process to cell membrane fusion," <i>Biochemistry</i> , 1997 May 27; 36(21):6251-6259.

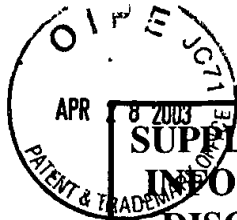
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SH	Lee et al., "Transient and stable ionic permeabilization of isolated skeletal muscle cells after electrical shock," <i>J. Burn Care & Rehab.</i> , 1993; 14(5):528-540.
	Lentz, "Polymer-Induced membrane fusion: Potential mechanism and relation to cell fusion events," <i>Chem. Phys. Lipids</i> , 1994; 73:91-106.
	Leskovar et al., "Giant Multinucleated Macrophages Occur within the Acute Spinal Cord Injury," <i>Cell & Tissue Research</i> , 2001 May; 304(2):311-315.
	Leskovar et al., "The Macrophage in Neural Injury: Changes in Cell Numbers Over Time and Levels of Cytokine Production in Mammalian Central and Peripheral Nervous Systems," <i>J. Exp. Biol.</i> , 2000 June; 203(12):1783-1795.
	Lucas et al., "Neuronal survival or death after dendrite transection close to the perikaryon: correlation with electrophysiologic, morphologic, and ultrastructural changes," <i>CNS Trauma</i> , 1985; 2(4):231-255.
	Lucas et al., "Physical injury of neurons: Important roles for sodium and Chloride ions," <i>The Neuroscientist</i> , 1997; 3(2):89-111.
	Malmgren et al., "A sensitive histochemical method for light- and electron-microscopic demonstration of horseradish peroxidase," <i>J. Histochem. Cytochem.</i> , 1977 Nov.; 25(11):1280-1283.
	Marks et al., "Amphiphilic, tri-block copolymers provide potent membrane-targeted neuroprotection," <i>FASEB J</i> , 2001 Apr.; 10:1107-1110.
	Massenburg et al., "Poly(ethylene glycol)-induced and rupture of diaphosphatidylcholine large, unilamellar extruded vesicles," <i>Biochem.</i> , 1993 Apr.; 32(6):9172-9180.
	Maxwell et al., "Cytochemical evidence for redistribution of membrane pump calcium-ATPase and ecto-Ca-ATPase activity, and calcium influx in myelinated nerve fibers of the optic nerve after stretch injury," <i>J. Neurocytology</i> , 1995 Dec.; 24(12):925-942.
SH	Maxwell et al., "Freeze-fracture and cytochemical evidence for structural and functional alteration in the axolemma and myelin sheath of adult guinea pig optic nerve fibers after stretch injury," <i>J. Neurotrauma</i> , 1999; 16(4):273-284.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 290.00420101	Serial No.: 09/438,206
	Applicants: Shi et al.	Confirmation No.: 9018
	Application Filing Date: 11/12/99	Group: 1617
	Supplemental Information Disclosure Statement mailed: April 28, 2003	

Examiner Initial	Document Description
SH	Maxwell, "Histopathological changes at central nodes of ranvier after stretch-injury," <i>Microscopy Research and Technique</i> , 1996 May 1; 34(1):522-535.
	Maxwell et al., "Loss of axonal microtubules and neurofilaments after stretch-injury to guinea pig optic nerve fibers," <i>J. Neurotrauma</i> , 1997; 14(9):603-614.
	Maxwell et al., "Ultrastructural evidence of axonal shearing as a result of lateral acceleration of the head in non-human primates," <i>Acta Neuropathol.</i> , 1993; 86(1):136-144.
	Mayer et al., "Effects of poloxamer 188 in a rabbit model of hemorrhagic shock," <i>Annals of Clinical & Laboratory Science</i> , 1994; 24(4):302-11.
	Merchant et al., "Poloxamer 188 enhances functional recovery of lethally heat-shocked fibroblasts," <i>J. Surg. Res.</i> , 1998 Feb. 1; 74(2):131-140.
	Mezrow et al., "Poloxamer 188 improves neurologic outcome after hypothermic circulatory arrest," <i>Journal of Thoracic & Cardiovascular Surgery</i> , 1992 June; 103(6):1143-6.
	Monyer et al., "21-Aminosteroids attenuate excitotoxic neuronal injury in cortical cell cultures," <i>Neuron</i> , 1990 Aug.; 5:121-126.
	Mori et al., "Basic Neurophysiology of Primate Locomotion," <i>Folia Primatologica</i> , 1996; 66:192-203.
	Moriarty et al., "The Effect of an Applied Electric Field on Macrophage Accumulation within the subacute spinal injury," <i>J. Rest. Neurolog. Neurosci.</i> , 1999; 14(1):53-64.
	Moriarty et al., "Two and Three Dimensional Computer Graphic Evaluation of the Subacute Spinal Cord Injury," <i>J. of Neurological Sciences</i> , 1998; 155:121-137.
	Naito et al., "Analyses of treadmill locomotion in adult spinal dogs," <i>Neurosci. Res.</i> , 1990 Aug.; 8(4):281-290.
SH	Nakajima et al., "Fusogenic activity of various water-soluble polymers," <i>J. Biomaterials Sci., Polymer Ed.</i> , 1994; 6(8):751-9.

EXAMINER 	Date Considered 10/22/03
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Supplemental Information Disclosure
Statement mailed:

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Examiner Initial	Document Description
SN	Novelli et al., "Glutamate becomes neurotoxic via the <i>N</i> -methyl-D-aspartate receptor when intracellular energy levels are reduced," <i>Brain Res.</i> , 1988 June 7; 451(1/2):205-212.
	Ochs, "Chapter 1: A brief history of nerve repair and regeneration," <i>Nerve Repair and Regeneration: Its Clinical and Experimental Basis</i> , Jewett et al., eds., The C.V. Mosby Co., St. Louis, MO, 1980; 1-8.
	O'Lague et al., "Physiological and morphological studies of rat pheochromocytoma cells (PC12) chemically fused and grown in culture," <i>Proc. Nat. Acad. Sci. USA</i> , 1980 Mar.; 77(3):1701-1705.
	O'Keefe et al., "Poloxamer-188 as an adjunct to primary percutaneous transluminal coronary angioplasty for acute myocardial infarction," <i>American Journal of Cardiology</i> , 1996 Oct. 1; 78:747-50.
	Padanlam et al., "Effectiveness of Poloxamer 188 in arresting calcein leakage from thermally damaged isolated skeletal muscle cells," <i>Ann. N.Y. Acad. Sci.</i> , 1994 May 31; 720:111-123.
	Palmer et al., "Surfactant administration reduces testicular ischemia-reperfusion injury," <i>J. Urol.</i> , 1988 June; 159:2136-2139.
	Pontecorvo, "Production of mammalian somatic cell hybrids by means of polyethylene glycol treatment," <i>Somatic Cell Genetics</i> , 1975; 1(4):397-400.
	"Radiculopathies," [online]. Global Anatomy: Department of Anatomy, University of Wisconsin Medical School, 2002 [retrieved on 2002-05-16]. Retrieved from the Internet: <URL: http://www.anatomy.wisc.edu/SClinic/Radiculo/Radiculopathy.htm >. (8 pgs.).
	Rivlin et al., "Effect of Duration of Acute Spinal Cord Compression in a New Acute Cord Injury Model in the Rat," <i>Surg. Neurol.</i> , 1978 July; 10(1):39-43
	Rivlin et al., "Objective clinical assessment of motor function after experimental spinal cord injury in the rat," <i>J. Neurosurg.</i> , 1977 Oct.; 47(4):577-581.
SN	Rosenberg et al., "Reduction of NaCl increases survival of mammalian spinal neurons subjected to dendrite transaction injury," <i>Brain Res.</i> , 1996; 734:349-353.

EXAMINER

Date Considered



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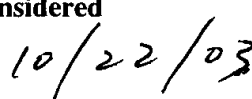
April 28, 2003

Examiner Initial	Document Description
SH	Rossignol et al., "Spinal pattern generation," <i>Curr. Opin. Neurobiol.</i> , 1994, Dec.; 4(6):894-902.
	Salzman et al., "Anesthesia influences the outcome from experimental spinal cord injury," <i>Brain Res.</i> , 1990; 521:33-39
	Schoch, "Researcher fuses spinal cords," <i>The Indianapolis Star</i> , 1998, Nov. 11; pgs. 1 and 6.
	Selzer, "Mechanisms of functional recovery and regeneration after spinal cord transection in larval sea lamprey," <i>J. Physiol.</i> , 1978; 277:395-408.
	Sharma et al., "Poloxamer 188 decreases susceptibility of artificial lipid membranes to electroporation," <i>Biophys. J.</i> , 1996 Dec.; 71:3229-3241.
	Shi et al., "Anatomical repair of nerve membranes in crushed mammalian spinal cord with polyethylene glycol," <i>J. Neurocytol.</i> , 2000; 29:633-643.
	Shi et al., "Compression injury of mammalian spinal cord in vitro and the dynamics of action potential conduction failure," <i>J. Neurophysiol.</i> , 1996 Sept.; 76(3):1572-9.
	Shi et al., "Control of membrane sealing in injured mammalian spinal cords axons," <i>J. Neurophysiol.</i> , 2000, Oct. 8; 84(4):1763-9.
	Shi et al., "Sucrose-gap recording from isolated spinal cord to examine axonal pathophysiology in response to compression injury," <i>J. Neurotrauma</i> , 1995; 12:996.
	Shi et al., "m-Calpain dependence of membrane sealing in mammalian spinal cord axons," <i>Society for Neuroscience Abstracts</i> , 1997; 23(1):270.
	Siesjö et al., "Neurocytotoxicity: pharmacological implications," <i>Fundam. Clin. Pharmacol.</i> , 1991; 5(9):755-767.
	Somerson et al., "Functional Analysis of an Electromechanical Spinal Cord Injury Device," <i>Exp. Neurol.</i> , 1987; 96:82-96.
SH	"Spinal cord and meninges," [online]. Wheelless' Textbook of Orthopaedics. [retrieved on 2002-02-20]. Retrieved from the Internet: <URL:http://www.medmedia.com/011/44.htm>. (2 pgs.).

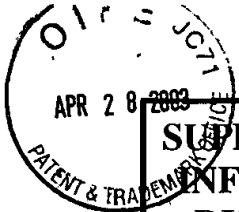
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SH	"Spinal cord and nerve roots," [online]. Spine-health.com, 2002. [retrieved on 2002-02-20]. Retrieved from the Internet: <URL:http://www.spine-health.com/topics/anat/a04.html>. (2 pgs.).
	Strautman et al., "Intracellular Free calcium concentrations and gradients in severed and intact spinal axons," <i>J. Gen. Physiol.</i> , 1986 Dec.; 88(6):57a-58a.
	Stys et al., "Role of extracellular calcium in anoxic injury of mammalian central white matter," <i>Proc. Natl. Acad. Sci. USA</i> , 1990 June; 87:4212-4216.
	Tator et al., "Review of the secondary injury theory of acute spinal cord trauma with emphasis on vascular mechanisms," <i>J. Neurosurgery</i> , 1991, July; 75(1):15-26.
	Theriault et al., "Intrinsic organization of the rat cutaneous trunci motor nucleus," <i>J. Neurophysiol.</i> , 1988, Aug.; 60(2):463-77.
	Theriault et al., "Nociceptive cutaneous stimuli evoke localized contractions in a skeletal muscle," <i>J. Neurophys.</i> , 1988 Aug.; 60(2):446-462.
	Thomas et al., "Clinical aspects of PNS regeneration," <i>Advances in Neurology, Vol. 47: Functional Recovery in Neurological Disease</i> , Waxman, ed., Raven Press, New York, 1988; 9-29.
	Tilcock et al., "The Interaction of Phospholipid Membranes with Poly(Ethylene Glycol) Vesicle Aggregation and Lipid Exchange," <i>Biochem.</i> , 1982; 688:645-652.
	Uhler et al., "The effects of megadose methylprednisolone and U-78517F on toxicity mediated by glutamate receptors in the rat neostriatum," <i>Neurosurgery</i> , 1994 Jan.; 34(1):122-7; discussion 127-8.
	Valentini et al., "Chapter 42: Strategies for the engineering of peripheral nervous tissue regeneration," <i>Principles of Tissue Engineering</i> , Lanza et al., eds., R.G. Landes Co., 671-684.
SH	Wagih et al., "Validation of the American Spinal Injury Association (ASIA) Motor Score and the National Acute Spinal Cord Injury Study (NASCIS) Motor Score," <i>Spine</i> , 1991; 21(5):614-619.

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SH	Wiswedel et al., "Injury of mitochondrial respiration and membrane potential during iron/ascorbate-induced peroxidation," <i>Biochim. Biophys. Acta.</i> , 1988 June 15; 934(1):80-86.
	Xie et al., "Membrane resealing in cultured rat septal neurons after neurite transection: evidence for enhancement by Ca ²⁺ -triggered protease activity and cytoskeletal disassembly," <i>J. Neurosci.</i> , 1991; 11(10):3257-3267.
	Xue et al., "Intracerebral injection of autologous whole blood in rats: time course of inflammation and cell death," <i>Neuroscience Letters</i> , 2000 Oct.; 283:230-232.
	Yawo et al., "Calcium dependence of membrane sealing at the cut end of the cockroach giant axon," <i>J. Neurosci.</i> , 1985 June; 5(6):1626-1632.
SH	Young, "Secondary injury mechanisms in acute spinal cord injury," <i>J. Emerg. Med.</i> , 1993; 11:13-22.

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